

1. A magnetic bearing apparatus of a control type having a supporting electromagnet capable of generating a magnetic force to support a supported member without contact by the magnetic force generated by supplying a control current to a coil of the electromagnet from a power amplifier, said apparatus comprising:

a displacement sensor for detecting a displacement of said support member; and

2. A magnetic bearing apparatus according to claim 1, wherein the control current detection signal of said current sensor is fed back to said power amplifier.

3. A magnetic bearing apparatus according to claim 1, further comprising a voltage sensor for detecting a coil voltage of said supporting electromagnet, a coil voltage detection signal of said voltage sensor being fed back to said power amplifier.